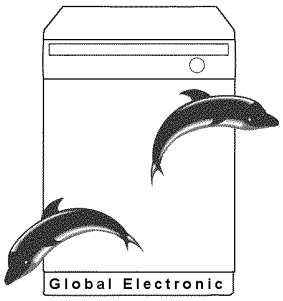
Whirlpool



Service Manual

Dishwasher integratable ADG 3550 WH

Model ADG 3550 WH
Version 8542 550 01 510

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Family	VBL - B5

This documentation is only intended for qualified technicians who are aware of the respective safety regulations.

Date: 10.04.2000
Document-No.: 4812 718 15219

Subject to modification

Technical data

Dimension

Height	82.0-87.0	cm
Width	59.7	cm
Depth	55.5	cm
Weight	52.7	kg

Wooden door

Thickness min.	16	mm
Thickness max.	20	mm
Width min.	592	mm
Width max.	595	mm
Height min.	515	mm
Height max.	600	mm
Weight max.	5.5	kg
Max. stick out over lower edge of appliance door	92	mm

Electronic boards

Service boards	see spare part list
Serial boards	
DUB	4619 724 06631
CB	411871
Dataset	411861

Succession of programs

Programs	see program diagram
Succession	1a-3b-4f-6a-7a

Alarms

Refill salt

Program information

Start indicator
Pre wash
Main wash
Drying
End

Datas Energy Label

Energy Performance	C
Cleaning Performance	A
Drying Performance	C
Reference program	4f

Volume (normal program)

Water	Volume	Level
Regeneration	0.3 l	15 mm
Back rinse 3x	1.0 l	68 mm
Prewash	4.8 l	122 mm
Main wash	4.5 l	121 mm
Intermediate rinse 1	4.0 l	120 mm
Intermediate rinse 2	4.0 l	120 mm
Clear rinse	4.0 l	120 mm
Safety / overflow	8.5 l	141 mm

Measuring the level

Remove the coarse sieve, put in a measuring meter into the sump, measure the hight of the water level.

Detergent max.

Pre-wash	10	cm^3
Main-wash	45	cm^3
Rinse aid	125	cm^3
6 Dosage steps	1 - 6	ml

Water softener

Saltcontainer	2	kg
Resin container	900	cm^3
Regeneration dosage	300	cm^3

Water pressure

Inlet pressure	0.3-10	bar
Spray pump pressure	0.4	bar

Rotations

Spray pump motor	2800	RPM
Drain pump motor	3000	RPM
Spray arm lower	20 - 40	RPM
Spray arm upper	25 - 35	RPM
Ceiling rotor	45 - 65	RPM

Technical data

Flow rates / Inlet volume

Flow meter (at 0.3 bar = quantity 1.1 l/min)	208	Imp./l
Spray pump	~ 70	l/min
Drain pump	16	l/min
Pump height max.	1.1	m
Inlet valve	4.5	l/min
Spray arm lower	33	l/min
Sprayarm upper	27	l/min
Ceiling rotor	10	l/min

Electrical data

Base data

Voltage	220/230	V
Frequency	50	Hz
Total power	2.0-2.2	kW
Fuse	10	A

Motor

Spray pump motor

Voltage	220/230	V
Power consumption	160	W
HI	81	Ω
HA	44	Ω
Capacitor	4	µ F

Drain pump motor

Voltage	220/240	V
Power consumption	30	W
Resistance	146	Ω

Heating

1 Element system

Voltage	220/230	V
Power consumption	1.87/2.04	kW
Resistance	24.5	Ω
Heating speed	~ 2.0	°C/min
Temperature on surface	~ 115	°C
Safety thermostat self reset	85	°C

Potentiometer

Points of meassurement:	1 (black) to 2 (middle)	
Position 0	0.0	kΩ
Position 1	0.5	kΩ
Position 2	1.0	kΩ
Position 3	1.4	kΩ
Position 4	1.8	kΩ
Position 5	2.3	kΩ
Position 6	2.6	kΩ

Water valves

Single valve at inlet hose

Voltage	220/240	V
Frequency	50/60	Hz
Resistance	3.76	kΩ

Regenerating valve

Voltage	220/240	V
Frequency	50/60	Hz
Resistance	3.13	kΩ

Coil of dispenser

Voltage	220/240	V
Frequency	50/60	Hz
Resistance	1.5	kΩ

Reedcontact

flow meter
salt control

NTC

20 °C	58.1	kΩ
25 °C	47.1	kΩ
30 °C	38.2	kΩ
40 °C	25.4	kΩ
50 °C	17.2	kΩ
60 °C	11.8	kΩ
70 °C	8.3	kΩ
80 °C	6	kΩ
85 °C	4	kΩ

Technical data

Regeneration

Volume	300	cm^3
Position 0		
after wash cycles	10	
water hardness	0-5	°dh
	0-0.9	mmol/l
	0-9	°Fh
Position 1		
after wash cycles	8	
water hardness	6-10	°dh
	1-1.8	mmol/l
	10-18	°Fh
Position 2		
after wash cycles	6	
water hardness	11-15	°dh
	1.9-2.7	mmol/l
	19-27	°Fh
Position 3		
after wash cycles	4	
water hardness	16-21	°dh
	2.8-3.7	mmol/l
	28.37	°Fh
Position 4		
after wash cycles	3	
water hardness	22-28	°dh
	3.8-5.0	mmol/l
	38-50	°Fh
Position 5		
after wash cycles	2	
water hardness	29-35	°dh
	5.1-6.3	mmol/l
	51-63	°Fh
Position 6		
after wash cycles	1	
water hardness	36-60	°dh
	6.4-10.7	mmol/l
	64-107	°Fh
Salt consumption for regeneration	77	g
Number of cycles with 2 kg salt	26	

Accesory

If you need spare parts apart from the spare part list have a look in the Service Bulletin 4812 728 40084.

Spare part list

Model	**ADG 3550 WH**
Service No.	**854255001510**
Version	**854255001510**

Pos. No.	12NC Code	Description
003 0	**4812 440 19594**	Traverse
004 0	**4812 440 18952**	Drip tray assy
004 1	**4812 401 18402**	Holder
011 0	**4812 505 18369**	Foot long
011 1	**4812 528 98004**	Shaft flexible
011 2	**4812 528 78032**	Slide disc f.foot
011 3	**4812 535 98054**	Gear
011 4	**4812 528 98001**	Roll f.foot
022 0	**4812 440 19398**	Side panel left
022 1	**4812 440 19397**	Side panel right
022 2	**4812 440 18953**	Spacer
024 0	**4812 440 19463**	Panel, rear
040 1	**4812 417 18774**	Hinge left
040 2	**4812 417 18773**	Hinge right
044 0	**4812 492 38362**	Spring f.door
047 0	**4812 404 48591**	Brake f.door
047 1	**4812 401 18397**	Band,brake
047 2	**4812 404 68023**	Hook
053 0	**4819 440 19906**	Plinth service kit NoThermod.
103 0	**4812 440 19478**	Door outer
105 0	**4812 404 48611**	Fastener door
105 2	**4812 505 68004**	Clip
120 0	**4812 440 19456**	Door,inner
120 1	**4812 440 18969**	Batten
130 0	**4812 417 58373**	Tilt lock cpl. bk
131 0	**4812 401 18416**	Hook lock
175 3	**4812 466 68572**	Batten
191 0	**4812 466 68564**	Gasket door
192 0	**4812 466 68467**	Gasket, door lower
241 0	**4812 458 18912**	Basket upper straight
241 1	**4812 458 18324**	Holder cups right white
241 3	**4812 528 88068**	Wheel,basket upper (set)
241 6	**4812 458 18979**	Holder glasses
241 8	**4812 466 68553**	Spacer cap set
242 0	**4812 458 18974**	Basket lower cpl.
242 1	**4812 528 88069**	Wheel,basket lower
242 4	**4812 466 48059**	Fixation
242 6	**4812 458 18977**	Support plate le
242 7	**4812 458 18978**	Support plate ri
243 5	**4819 310 39859**	Cutlery basket KIT
243 6	**4812 458 18996**	Grille
261 0	**4819 462 38271**	Rail telescope, inner
261 1	**4819 404 48819**	Cap rail
261 2	**4812 462 78995**	Cap rail ahead
263 0	**4819 520 18013**	Ball cage cpl.
263 1	**4812 520 48001**	Ball Niro 8 D
265 0	**4812 404 48637**	Basket adjustm. cpl.
265 2	**4812 404 48638**	Grip basket adjustment
301 0	**4812 453 70616**	Control panel WH
303 1	**4812 460 38086**	Plate,handle WH
305 1	**4819 502 18241**	Screw synthetic
305 2	**4819 505 18191**	Nut
305 3	**4812 440 19475**	Batten adjustable 5mm WH
305 4	**4812 440 19349**	Batten adjustable 10mm WH
322 0	**4812 453 70588**	Insert panel WH

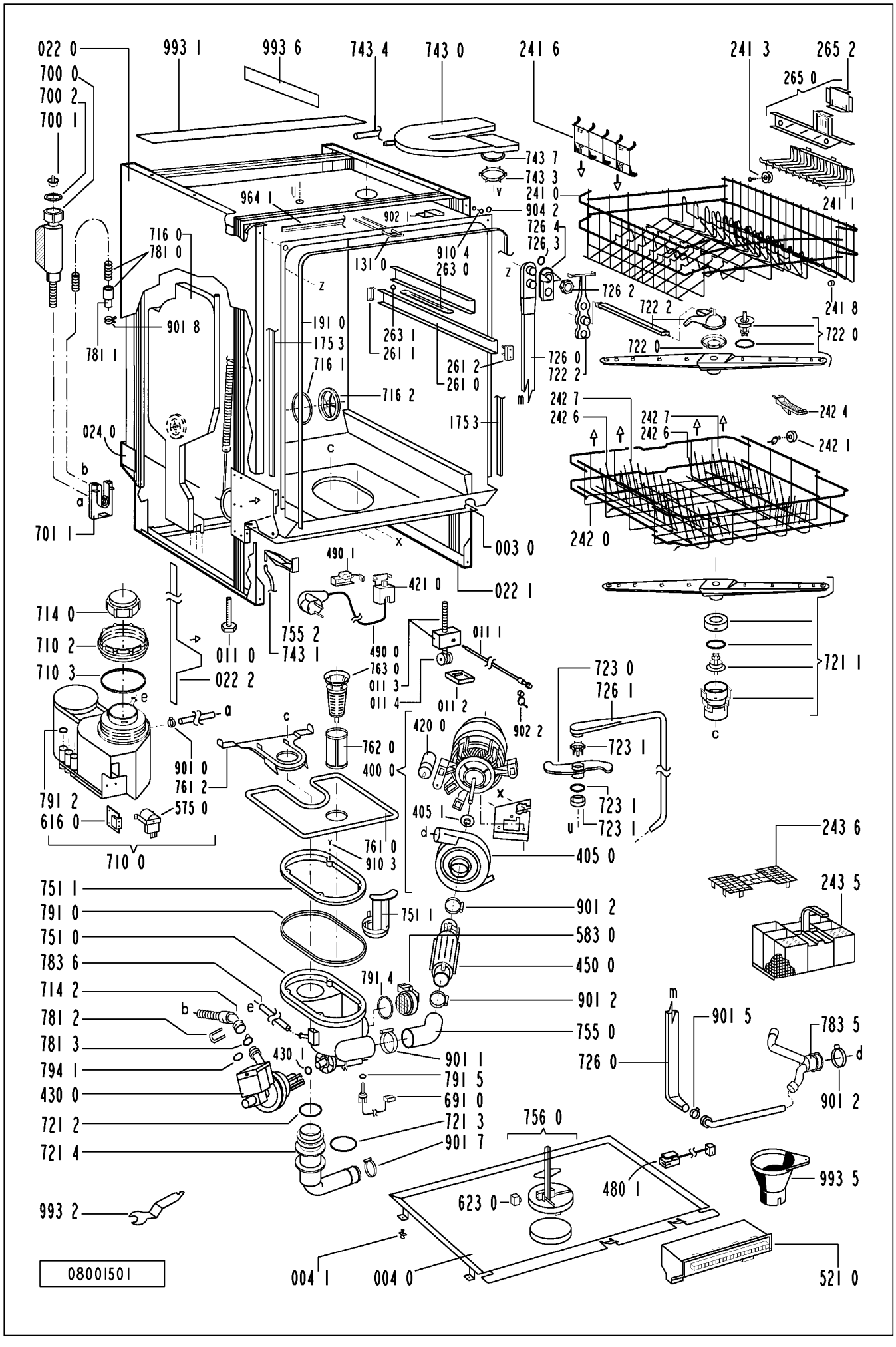
Pos. No.	12NC Code	Description
331 0	**4812 413 59016**	Knob program cpl. WH
332 0	**4812 410 28669**	Button WH
350 1	**4812 381 28045**	Window (WP-VBL-LOW)
400 0	**4812 361 58126**	Motor + spraypump cpl.
405 0	**4812 360 18371**	Spray pump
405 1	**4819 515 28158**	Gasket
420 0	**4812 121 18132**	Capacitor
421 0	**4812 121 18161**	Interf.filter
430 0	**4812 360 18357**	Pump,draining
430 1	**4812 466 68506**	Shaft seal
450 0	**4812 259 28684**	Heating element
480 0	**4812 321 28394**	Cable harness set
480 1	**4812 321 28371**	Cable
480 3	**4812 401 18418**	Protector f.wiring
490 0	**4819 321 18136**	Cable,mains 2m SA
490 1	**4812 321 28367**	Strain relief
521 0	**4812 214 78365**	Control board (CB)
531 0	**4812 273 18055**	Switch waterhardness
531 1	**4812 273 18056**	Wheel,fingertip
575 0	**4812 281 28361**	Regen.valve
583 0	**4812 271 28407**	Switch diaphragm
616 0	**4812 281 18047**	Contact,reed salt
620 0	**4812 218 38091**	User board (DUB)
623 0	**4812 271 38356**	Microswitch
633 0	**4812 271 38355**	Microswitch door
680 0	**4812 418 68154**	Combidosage
680 1	**4812 466 68495**	Gasket
681 1	**4812 466 68497**	Gasket
681 2	**4812 440 18975**	Flap
682 0	**4812 466 68496**	Gasket
691 0	**4812 282 68012**	Feeler NTC
700 0	**4812 530 28804**	Hose, inlet aqua stop 4,2m
700 0	**4812 530 28848**	Hose, inlet aqua stop 2m
700 1	**4812 480 48019**	Sieve
700 2	**4812 520 58002**	Gasket set
701 1	**4812 310 18153**	Yoke clamp set
710 0	**4812 418 68151**	Monoblock
710 2	**4819 310 38536**	Threaded ring
710 3	**4819 466 69562**	Gasket set
714 0	**4812 462 78993**	Threaded cap
714 2	**4812 440 18963**	Cabinet non-return flap
716 0	**4812 418 68147**	Reg.dosage
716 1	**4812 466 68475**	Gasket
716 2	**4812 462 78994**	Cover
721 1	**4812 360 68061**	Spray arm lower. cpl.
721 2	**4812 466 68491**	Gasket 25x2,3B
721 3	**4812 466 68558**	Gasket 30x3,0
721 4	**4812 440 19455**	Flange
722 0	**4812 360 68044**	Spray arm upper
722 2	**4812 360 68056**	Hub upper straight cpl.
723 0	**4812 360 68049**	Spray arm ceiling
723 1	**4819 310 39831**	Kit
726 0	**4812 530 28786**	Tube
726 1	**4812 530 28787**	Tube
726 2	**4812 505 18358**	Nut

Spare part list

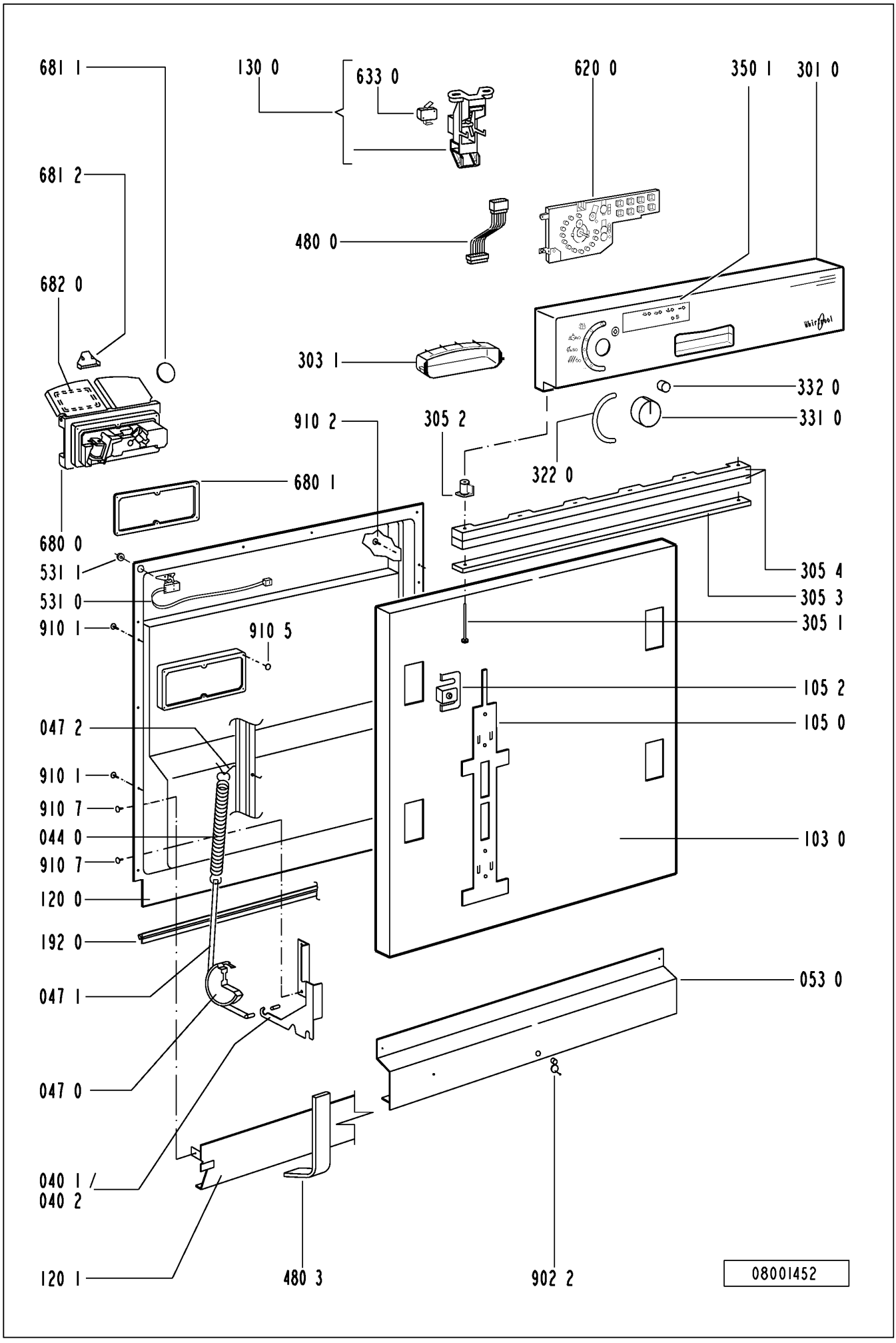
Model	**ADG 3550 WH**
Service No.	**854255001510**
Version	**854255001510**

Pos. No.	12NC Code	Description
726 3	**4812 466 68512**	Gasket
726 4	**4812 462 79633**	Centering
743 0	**4812 511 48171**	Capacitor
743 1	**4812 530 28102**	Hose, inlet
743 3	**4812 505 18364**	Nut
743 4	**4812 530 28807**	Hose 9x1,5x270+10
743 7	**4812 466 68514**	Gasket
751 0	**4812 418 18205**	Water collector
751 1	**4819 310 39826**	Water guide Service kit
755 0	**4812 530 28849**	Bend
755 2	**4812 530 48148**	Tray,leak
756 0	**4812 360 58099**	Floater
761 0	**4812 480 58082**	Sieve fine
761 2	**4812 418 18204**	Cover sieve
762 0	**4812 480 58084**	Microfilter
763 0	**4812 480 58083**	Sieve coarse
781 0	**4812 530 28737**	Hose,draining
781 1	**4819 530 28286**	Sleeve hose
781 2	**4819 492 68405**	Clip f.non-return valve
781 3	**4812 281 28364**	Flap non-return
783 5	**4812 530 78028**	Distributor
783 6	**4812 530 28796**	Hose 10x3x180+10
791 0	**4812 532 68067**	Gasket
791 2	**4812 530 58093**	Gasket
791 4	**4812 466 68503**	Gasket
791 5	**4812 466 68504**	Gasket
794 1	**4819 530 58032**	Gasket 20x2,5
901 0	**4822 401 10492**	Clamp,hose 14-24 mm
901 1	**4812 401 18424**	Strap 050,0
901 2	**4812 401 18157**	Strap 32-50/9 C61
901 5	**4812 401 48573**	Strap 028,6
901 7	**4812 401 18427**	Strap 031,6
901 8	**4812 401 18075**	Strap 20-32/9 mm
902 1	**4812 466 78015**	Fastener f.buildt-in models
902 2	**4812 404 78241**	Holder
904 2	**4812 462 79657**	Cover BK 3,5x5
910 1	**4812 502 18394**	Screw 3,5x14-H
910 2	**4812 502 18363**	Screw 4,0x12-H
910 3	**4812 502 18389**	Screw NIRO A2
910 4	**4812 502 18385**	Screw M3,5x8-T15M
910 5	**4812 502 18393**	Screw 3,5x9-1 Tx15
910 7	**4812 502 18397**	Screw INOX A2 M 5X12
964 1	**4812 466 68573**	Gasket housing upper
993 1	**4812 466 78018**	Foil protection
993 2	**4812 404 48609**	Socket wreng foot
993 5	**4822 532 80216**	Funnel salt
993 6	**4812 466 78386**	Foil protection add.

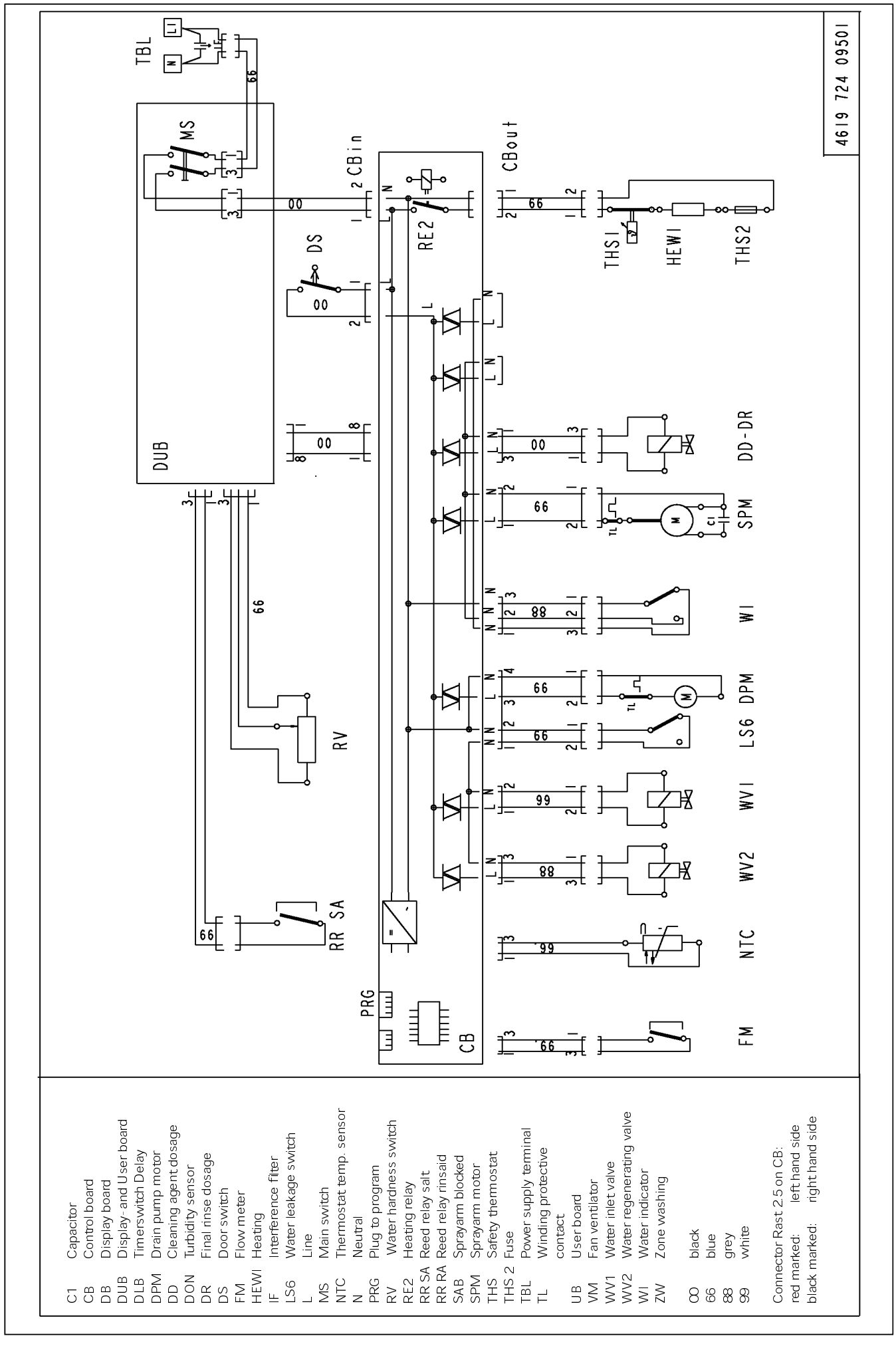
Exploded view



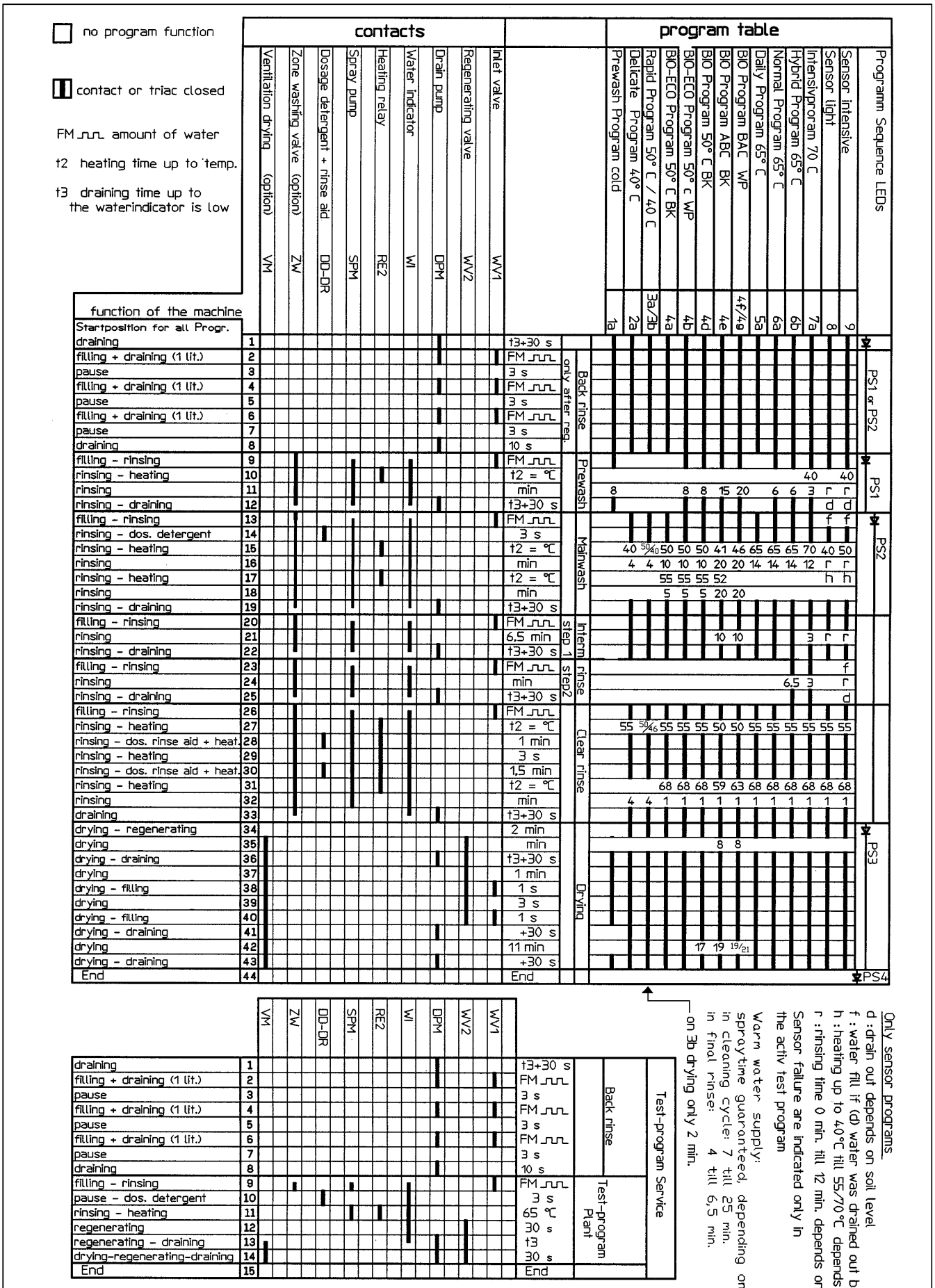
Exploded view



Circuit diagram



Program diagram


no program function
contact or triac closed
FM amount of water
t2 heating time up to temp.
t3 draining time up to the waterindicator is low
contacts
program table
Programm Sequence LEDs
Inlet valve WV1
Regenerating valve WV2
Drain pump DPM
Water indicator WI
Heating relay RE2
Spray pump SPM
Dosage detergent + rinse aid DD-DR
Zone washing valve (option) ZW
Ventilation drying (option) VM
Prewash Program cold 1a
Delicate Program 40° C 2a
Rapid Program 50° C / 40 C 3a/3b
BIO-ECO Program 50° C BK 4a
BIO-ECO Program 50° C WP 4b
BIO Program 50° C BK 4d
BIO Program ABC BK 4e
BIO Program BAC WP 4f/4g
Daily Program 65° C 5a
Normal Program 65° C 6a
Hybrid Program 65° C 6b
Intensivprogram 70 C 7a
Sensor light 8
Sensor intensive 9
PS1 or PS2
PS1
PS2
PS3
PS4
function of the machine
Startposition for all Progr.
draining 1 t3+30 s
filling + draining (1 lit.) 2 FM
pause 3 3 s
filling + draining (1 lit.) 4 FM
pause 5 3 s
filling + draining (1 lit.) 6 FM
pause 7 3 s
draining 8 10 s
Back rinse only after req.
filling - rinsing 9 FM
rinsing - heating 10 t2 = °C
rinsing 11 min
rinsing - draining 12 t3+30 s
Prewash
filling - rinsing 13 FM
rinsing - dos. detergent 14 3 s
rinsing - heating 15 t2 = °C
rinsing 16 min
rinsing - heating 17 t2 = °C
rinsing 18 min
rinsing - draining 19 t3+30 s
Mainwash
filling - rinsing 20 FM
rinsing 21 6,5 min
rinsing - draining 22 t3+30 s
Interm. rinse step 1
filling - rinsing 23 FM
rinsing 24 min
rinsing - draining 25 t3+30 s
step2
filling - rinsing 26 FM
rinsing - heating 27 t2 = °C
rinsing - dos. rinse aid + heat. 28 1 min
rinsing - heating 29 3 s
rinsing - dos. rinse aid + heat. 30 1,5 min
rinsing - heating 31 t2 = °C
rinsing 32 min
draining 33 t3+30 s
Clear rinse
drying - regenerating 34 2 min
drying 35 min
drying - draining 36 t3+30 s
drying 37 1 min
drying - filling 38 1 s
drying 39 3 s
drying - filling 40 1 s
drying - draining 41 +30 s
drying 42 11 min
drying - draining 43 +30 s
Drying
End 44 End
Only sensor programs
d : drain out depends on soil level
f : water fill if (d) water was drained out before
h : heating up to 40°C till 55/70°C depends on soil level
r : rinsing time 0 min. till 12 min. depends on soil level
Sensor failure are indicated only in the activ test program
Warm water supply: spraytime guaranteed, depending on program: in cleaning cycle: 7 till 25 min. in final rinse: 4 till 6,5 min.
on 3b drying only 2 min.
Test-program Service
Back rinse
Test-program Plant
draining 1 t3+30 s
filling + draining (1 lit.) 2 FM
pause 3 3 s
filling + draining (1 lit.) 4 FM
pause 5 3 s
filling + draining (1 lit.) 6 FM
pause 7 3 s
draining 8 10 s
filling - rinsing 9 FM
pause - dos. detergent 10 3 s
rinsing - heating 11 65 °C
regenerating 12 30 s
regenerating - draining 13 t3
drying-regenerating-draining 14 30 s
End 15 End

4619 720 87634-1 Ä01 29.01.02

Text/Legend

Test procedure for SERVICE-TEST-PROGRAM DOLPHIN dishwashers Whirlpool VBL without 2 digit 7 segment-display

Switch on the appliance. If there is no failure indicated, than:

1. Start the passive test program.
   If there is a defective component indicated, open the plinth and take out the control board (CB).

2. Check the component.
   Unplug the indicated component from the control board (CB) and check it by using an Ohm-measure equipment.
   If the ohms are not correct, check the cables to the component and check the component itself.

3. Check the control board (CB).

4. At the end of the repair start the appliance and delete the failure. After this, start the passive and active test program again to see that the failure is solved.

More details: s. following pages.

Attention:

First unplug the appliance, then set the connection clamps of the volt measurement on the test points.
Danger for short circuit. Short circuits on components can damage the control board (CB).
If electronic boards are wet, do not switch the appliance on.
For check the appliance, plug in the appliance.
Failures, which occurred during the program will store and indicate by flashing start LED.
Then start the test program without erase the failure before. The failure will indicate.
To erase the failures, you must push the start button longer than 3 seconds.
The failures F1 NTC break
F2 water leakage
F9 continuous water inlet
are checked and indicated immediately after start of the program.
Therefore these failures have to be solved before starting the active test program.

When these failures are not solved, the active test program does not run.

The electrical components get their voltage via triac from the control board (CB). For testing the volume of voltage the volt meter must be parallel to the component (the component must be connected). If the component is disconnected, then the outcomed voltage from the control board (CB) is reduced.

After starting a program this program is locked. That means neither by unplugging/switching of the appliance nor by setting an other program, the first setted program can be changed. Changing of the program is only possible by pushing the start button again for longer than 3 sec..

Attention: On new service control boards the first service test program is without back rinsing. Dangerous for overfilling the appliance, in case the appliance is not empty. By running the test program a second time the back rinsing will be carried out as usual.

4619 724 14971-1

Text/Legend

Handling of failures

F0 Sensor failure
Will not indicate for the customer. The programs will finish even there is a failure. The Failure is indicated only in the active test program after 10 – 30 second's. The active test program will finish as well, even there is a failure.
If the failure in a sensorprogram appear, the machine will always choose the highest consumption (best cleaning result).
- None or wrong output from the sensor
- Unlocical or unreal measurement results

Reason:
- Defective electronic of the sensor
- Optoelectronical parts in the sensor defect
- Case of the sensor is very dirty
- Connection between sensor and control board (CB) interrupted

Attention: The failure code will not store.

F1. NTC break
Temperature out of the normal value (-3°C till +85°C)
- temperature inside higher than +85°C
- NTC defective
- dishwasher is frozen, less than -3°C

Fill in the appliance a cup of warm water to warm it up before you start it, if the temperature is less than -3°C

F2. water leakage
- water is in the drip tray

floater (LS6) switches off the WV1 and the electronic switches on the DPM till WI reports empty

F3. heating system defective
Indicated after app. 25 minutes (1. check after 5 min., after that follow 2 more checks, before the failure is indicate)
- too less heating speed (lower 1,5 °C in 10 min.)
- heating (HEW) defective
- relays (RE2) on control board (CB) is defective
- NTC - resistance fluctuation
- water indicator (WI) defective (is switched off) - spray pump (SPM) is not working

F4. draining failure
drain pump starts and after 4 min. the WI detects not empty
- drain pump (DPM) defective
- siphon closed
- control board (CB) defective
- water indicator (WI) defective (is switched on)

F6. water tap closed (only indicated after start of the active test program)
water valve (WV1) is switched on but flow meter (FM) sends no impulses (less than 10 imp. in 10 sec.) and the water indicator (WI) is off (empty)
- water tap closed
- water inlet hose blocked
- water inlet valve (WV1) defective
- flow meter (FM) defective (leads to FM failure)

Text/Legend

F7. flow meter failure
water inlet valve (WV1) is switched on and the water indicator (WI) is on (full).
- flow meter (FM) sends to less impulses (less than 10 imp. in 10 sec.)
- water tap closed
- water inlet hose blocked
- water inlet valve (WV1) defective
- flow meter (FM) defective

F8. water level failure
failure monitored during spray pump is on and the water indicator switches back more than 20 times in 2 min.
- water indicator defective (should switch on after app. 1 litre)
- sieve blocked
- water strongly foams
- pot has turned off and is filled with spray water
- no stable spray pump (SPM) working

F9. continuous water inlet
water inlet valve (WV1) is switched off, water indicator (WI) on, flow meter (FM) sends impulses (more than 10 imp. in 10 sec.)
- water inlet valve (WV1) mechanically not closed
- triac (CB) permanently switched on. (short circuit)

reaction: interval 30 sec. draining / 20 sec. tracing

For salt, rinse aid, zone wash valve, sieve valve failure see active test program.

Text/Legend

FAILURECODES for Whirlpool VBL without 2 digit 7 segment display

Alarm / Failures	Failurecode, which is indicated for the customer on the Start-LED and the Programsequence, directly after it's occured	
	Both indications parallel on appliances with Programsequence	
	Indication on appliances without Programsequence	
F0 Sensore failure	**Indicated only in the active testprogram** START 10 x flashing 1s break 10 x flashing.....	☼ ☼ ○ ○ PS1 PS2 PS3 PS4
F1 NTC-break	START 1 x flashing1s break 1 x flashing.....	☼ ○ ○ ○ PS1 PS2 PS3 PS4
F2 Water leakage	START 2 x flashing1s break 2 x flashing.....	○ ☼ ○ ○ PS1 PS2 PS3 PS4
F3 Heating system defective	START 3 x flashing1s break 3 x flashing.....	○ ○ ☼ ○ PS1 PS2 PS3 PS4
F4 Draining failure	START 4 x flashing1s break 4 x flashing.....	○ ○ ○ ☼ PS1 PS2 PS3 PS4
F6 Water tap closed	START 6 x flashing1s break 6 x flashing.....	○ ☼ ○ ☼ PS1 PS2 PS3 PS4
F7 Flow meter failure	START 7 x flashing1s break 7 x flashing.....	○ ○ ☼ ☼ PS1 PS2 PS3 PS4
F8 Waterlevel failure	START 8 x flashing1s break 8 x flashing.....	○ ☼ ☼ ○ PS1 PS2 PS3 PS4
F9 Continous waterinlet	START 9 x flashing1s break 9 x flashing.....	☼ ○ ☼ ○ PS1 PS2 PS3 PS4

☼ **LED flashing**
○ **LED off**

PS 1 till PS 4: Programsequence

- **The failurecode "Sprayarm blocked (F5)" is not present on the Whirlpool VBL Version**
- **On the 1 digit 7 segment-display the failure will shown with a "F" in the display and a flashing Start-LED.**
- **The failure F0 (Sensor failure) will only indicated in the active testprogram, that means, this failure is not visible for the customer.**

Text/Legend

With the passive test program, you can check all LED's and buttons. If there is no failure the passive test program runs normal.

Attention:
If you can't start the active test program (Start button don't flash), normally there is one of the following failures detected: F1, F2 or F9

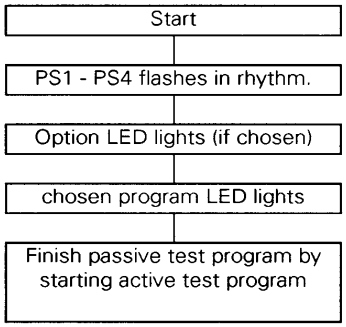
When these failures are not solved before, the passive and active test program will not run. After solving the failure you must "sign" (erase) the failure.

A present failure will be indicate directly after you switch on the appliance

Start procedure

Start the passive test program if there is no failure indicated

If there is no failure the passive test program runs normal.


Start
PS1 - PS4 flashes in rhythm.
Option LED lights (if chosen)
chosen program LED lights
Finish passive test program by starting active test program

1. Switch off the appliance.
2. Push start button and hold it.
3. Choose programplace 1 (turn to the left side).
4. Finish pushing the start button when the start LED flashes.
5. Test all LEDs by operate the buttons and the programknob. After the check, turn the programknopb on programplace 1
6. Start the active testprogram by pushing the start button again
7. Failure indication.
8. Repair the failure
9. Solve the failure by pushing the start button for longer than 3 sec.
10. Start the active testprogram again, to see, if the failure is really solved

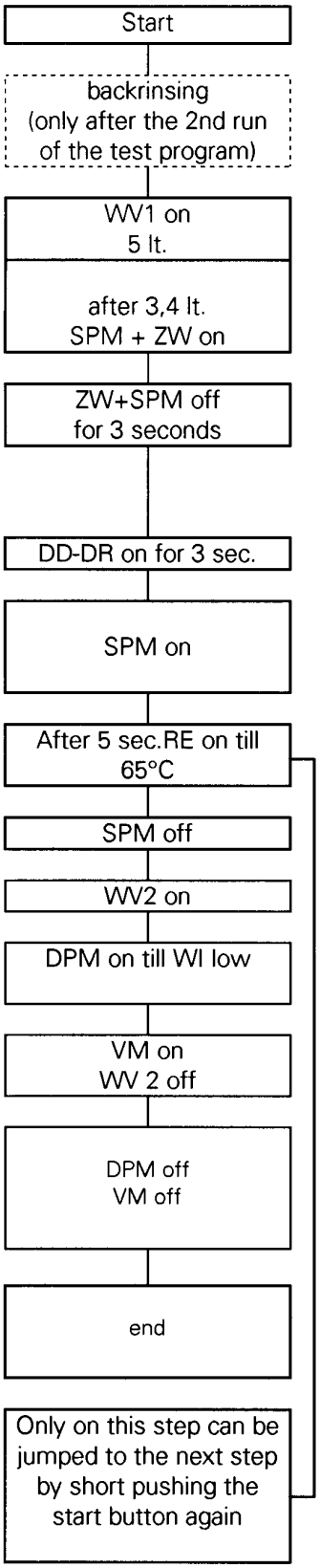
Active test program starts (see next page)

Program sequence LED

PS1	1. LED	prewash		
PS2	2. LED	mainwash intermediate rinse final rinse		
PS3	3. LED	drying (regeneration)		
PS4	4. LED	end	goes off if any button is pushed	goes off after 30 min progr. is finished

Text/Legend

Active test program



PS4
on

Remarks

The active test program runs to the failure position and stops or, if there is no failure, it runs to the end.

To leave the test program push the start button for longer than 3 second's.

Too less salt or too less rinse aid leads not to the stop of the appliance.

The function of the zone wash valve can only be checked optically.
A defect leads to a not stable SPM pressure.

When the failure position is reached, the failure indication is like on the page "Failurecodes"

Attention:
If you can't start the active test program (Start button don't flash), normally there is one of the following failures detected: F1, F2 or F9

When these failures are not solved before, the active test program will not run. After solving the failure you must "sign" (erase) the failure.

Remarks:
ZW on: zone wash valve on = no water on the upper sprayarm.
ZW off: zone wash valve off = water on the upper sprayarm.